Lecture #17

Date: Oct 20,25 Day: Monday

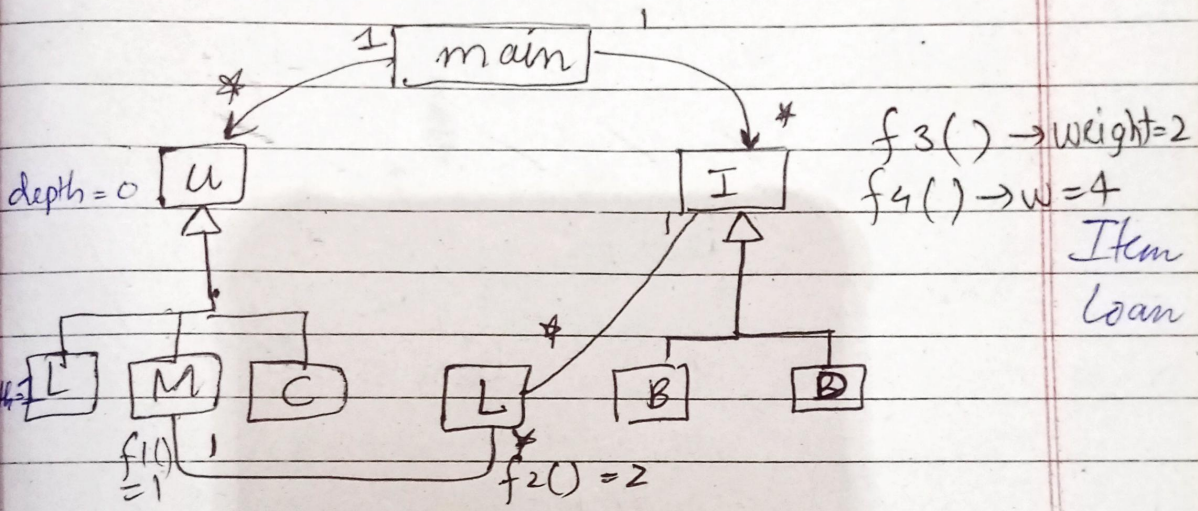
CK - Metrices:

Object-oriented measurements of measure quantity of code and/or design.

1) WMC (
2) RFC
3) DIT
4) NOC (no. of children)
5) CBO (coupling b/w objs)
6) LCOM

Tools:

1) CCCC
2) SonarQube
3) Understand
4) RSA (Rust code Analysis)



5) Coupling b/w objects:

I has CBO = 4

D // // = 2 ..

Date:

Day

	Member	Loan	Item
* CBO	2	2	4
* WMC	1	2	5
* DIT	1	0	0
* RFC	2	3	3
* NOC	0	0	2
* LCOM ?			

sum of weights of ---
how many func. a class have.

should less → Weighted method Per class: (WMC)
Functions count of a class
children class main parent ka
WMC count nahi hota (Its individual)

should less → Depth of Inheritance Tree: (DIT)
kind of coupling

how many functions can be called = ?
→ Response for a class: (RFC)
function calls.
functions main function calls ki kitni hain?

```
f3() {
    a.foo();
    b.bar();
}

f4() {
    c.f7();
}
```

→ NOC : no. of children:
how many children a class have?

→ LCOM : Lack of cohesion of methods
→ in simple words: yeh cohesion hi hai.
(Amir Raheem)
→ Groups of function & variables. 20-10-25

→ LCOM 2

```
class Car {
    int r;
    int l, w;

    int area() {
        return PI * r * r;
    }

    int circum() {
        return 2 * PI * r;
    }

    int areaRect() {
        return l * w;
    }
```

r, area, circum
grp 1

l, w areaRect
grp 2.